

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

The effect of nifedipine on the success of embryo transfer cycles in patients with recurrent implantation failure

Protocol summary

Study aim

The effect of nifedipine on the success of embryo transfer cycles in patients with recurrent implantation failure

Design

In a clinical trial, a group of 60 patients with a history of recurrent fetal implant failure will be screened before and after.

Settings and conduct

In this study, we will investigate the effect of Nifedipine in the treatment of patients with recurrent implantation failure (RIF). 60 infertile women with history of RIF and systolic blood pressure ≥ 115 will enroll in this survey. Nifedipine tablet with dose of 10 mg will be administrated to the patient 2 hours before embryo transfer. Vital signs will be checked before administration of drug and every 15 min to 1 hour and every 1 hour to 4 hours. Chemical and clinical pregnancy rate will be studied in the patients.

Participants/Inclusion and exclusion criteria

Patients with a history of two or more fetal implant failures will be included in the study and will not be included in the study if there are other causes of fetal cycle failure, including uterine abnormalities such as uterine fibroids or polyps in the endometrium, immune system disorders, and coagulation system disorders.

Intervention groups

Nifedipine tablet with dose of 10 mg will be administrated to the patient 2 hours before embryo transfer.

Main outcome variables

Clinical pregnancy; Chemical pregnancy

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20130603013566N9**

Registration date: **2021-07-02, 1400/04/11**

Registration timing: **registered_while_recruiting**

Last update: **2021-07-02, 1400/04/11**

Update count: **0**

Registration date

2021-07-02, 1400/04/11

Registrant information

Name

Kobra Hamdi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 41 1554 1221

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hamdik@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-07-01, 1400/04/10

Expected recruitment end date

2022-04-30, 1401/02/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of nifedipine on the success of embryo transfer cycles in patients with recurrent implantation failure

Public title

The effect of nifedipine on the success of embryo transfer cycles in patients with recurrent implantation failure

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Age 40_20 years Transfer of 2 or more GA or GB embryos in the current cycle History of two or more implantation failures in IVF

Exclusion criteria:

Congenital or acquired abnormalities of the uterus History of uterine surgery (such as myoma or adenomyosis, etc.) Heart disease Severe endometriosis

Age

From **20 years** old to **40 years** old

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee Of Tabriz University Of Medical Sciences

Street address

Third Floor, Central Building of Number2, Golgasht Street

City

Tabriz

Province

East Azarbaijan

Postal code

5166616471

Approval date

2021-05-31, 1400/03/10

Ethics committee reference number

IR.TBZMED.REC.1400.215

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

N97

ICD-10 code description

Female infertility

Primary outcomes

1

Description

Chemical pregnancy

Timepoint

14 days after embryo transfer in the cleavage stage and
12 days after embryo transfer in the blastocyst stage

Method of measurement

BHCG test

2

Description

Clinical pregnancy

Timepoint

Two weeks after a positive pregnancy test

Method of measurement

Uterine ultrasound

Secondary outcomes

empty

Intervention groups

1

Description

In this study (before and after) the result of the intervention in each person will be compared with his previous transfers, ie people who did not get a positive result in previous transfer cycles, this time again with the same medication regimen and transfer method used in the cycle We will introduce the previous transfer in the embryo transfer cycle only by adding nifedipine to the treatment regimen. Nifedipine tablets will be given 2 hours before embryo transfer at a dose of 10 mg.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

DR.Hamdi Kobra

Street address

Alzahra Hospital, South Artesh St.,Tabriz, iran

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Sponsors / Funding sources

1

Sponsor**Name of organization / entity**

Vice chancellor for Research,Tabriz University Of Medical Sciences

Full name of responsible person

Dr.Mohammad Samiei

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No. 2 Central Building, Tabriz University of Medical Sciences, Golgasht Street, Tabriz

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research-vice@tbzmed.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice chancellor for Research,Tabriz University Of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries

Contact**Name of organization / entity**

Tabriz University of Medical Sciences

Full name of responsible person

Kobra Hamdi

Position

Associate Professor of Obstetrics Gynecology

Latest degree

Subspecialist

Other areas of specialty/work

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available